

In still another example embodiment a surgical device is provided, including an electro-mechanical driver device; a flexible, elongated outer sheath connected to the electro-mechanical driver device; and at least one drive shaft disposed within the outer sheath.

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BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a perspective view of an electro-mechanical surgical device according to the present invention.

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Figure 2 is a side elevational view, partially in section, of a flexible shaft of the electro-mechanical surgical device illustrated in Figure 1.

Figure 3 is a cross-sectional view of the flexible shaft taken along the line 3 - 3 shown in Figure 2.

Figure 4 is a rear end view of a first coupling of the flexible shaft illustrated in Figure 2.

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Figure 5 is a front end view of a second coupling of the flexible shaft illustrated in Figure 2.

Figure 6 is a schematic view illustrating a motor arrangement of the electro-mechanical surgical device illustrated in Figure 1.

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Figure 7 is a schematic view of the electro-mechanical surgical device illustrated in Figure 1.

Figure 8 is a schematic view of an encoder of the flexible shaft illustrated in Figures 2 and 3.

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Figure 9a is a schematic cross-sectional side view of a first example embodiment of a circular surgical stapler attachment used in connection with the electro-mechanical surgical device illustrated in Figure 1.

Figure 9b is a schematic cross-sectional side view of a second example embodiment of a circular surgical stapler attachment used in connection with the electro-mechanical surgical device illustrated in Figure 1.

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Figure 9c is an exploded view of an example embodiment of a gear arrangement of the second example embodiment of the circular surgical stapler attachment illustrated in Figure 9b.

Figure 10 is a schematic view of a memory device of the first example embodiment of a circular surgical stapler attachment illustrated in Figure 9b.